

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_101373
Title of the Manuscript:	Modeling rheological properties of High temperature and high pressure gas well cement slurries using artificial neural networks.
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljerr.com/index.php/JERR/editorial-policy>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? Yes</p> <p>2. Is the title of the article suitable? Yes</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct? More details about the ANN should be added.</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. No, the paper has few references.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>In this paper, the relationships between six independent variables and transit time for gas well cement slurries have been analyzed. The rheological properties of gas well cement slurries were modeled using a feed-forward back-propagation artificial neural network.</p> <p>In general, the paper is well written and the scope falls in the scope of the journal.</p> <p>It is not know the role of Matlab in section "Artificial Neural Network – MATLAB". Authors should clarify it.</p> <p>In order to improve the paper more details about the ANN should be added. For instance: activation function, optimizer, etc.</p> <p>What was the final regression function? The authors should add and expand it on the paper.</p> <p>For a journal, the paper has few references.</p> <p>Minor remarks: Remove the mark before (Kris 2008) Move the mark from before (Sasso,2017) to after (Sasso,2017). "Artificial neural network, ANN" -> Artificial neural network (ANN) Use data instead database "It rather generates the model based on the database" Table 1: use "gps" or "Gps"</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>		

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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